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A visual approach to multimedia querying and presentation

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Proceedings of the fifth ACM international conference on Multimedia [table of contents](#)
 Seattle, Washington, United States
 Pages: 109 - 120
 Year of Publication: 1997
 ISBN:0-89791-991-2

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Publisher ACM Press New York, NY, USA

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Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

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3 W. F. Cody., L. M. Haas., W. Niblack., M. Arya., M. J. Carey., R. Fagin., M. Flickner., D. Lee., D. Petkovic., P. M. Schwarz., J. Thomas., M. Tork Roth., J. H. Williams., E. L. Wimmers., Querying multimedia data from multiple repositories by content: the Garlic project. Proceedings of the third IFIP WG2.6 working conference on Visual database systems 3 (VDB-3), p.17-35, June 1997

S76	0	"assign next" and "get next" and shift and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 13:42
S77	132	"assign next" and shift and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 13:43
S78	2	("5287514" "5530869").PN.	USPAT	OR	ON	2004/06/03 13:51
S89	2	"20030041047"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/04 11:35
S90	40	concept\$1 near librar\$3 and feature\$1 near2 librar\$3 constraint\$1 near librar\$3 and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/06 11:45
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S92	0	concept\$1 near librar\$3 and feature\$1 near2 librar\$3 and constraint\$1 near librar\$3 and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/06 11:47
S93	14	concept\$1 near librar\$3 and feature\$1 near2 librar\$3 and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/06 12:08
S94	0	feature\$1 near2 librar\$3 and constraint\$1 near librar\$3 and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/06 11:47
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S97	26	concept\$1 and "content-based" near2 quer\$3 and image\$1 and multimedia and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/06 12:18
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S10 0	16	("constraint library" or "constraint libraries") and @ad<""""20010809""""	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/01/06 12:50
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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	11	Concept! near2 (search\$3 or quer\$4 or retriev\$6) same multimedia	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 11:57
S2	104	Concept! same (search\$3 or quer\$4 or retriev\$6) same multimedia	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 16:14
S3	11	Concept! near2 (search\$3 or quer\$4 or retriev\$6) same multimedia and concept!	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 15:50
S4	104	Concept! same (search\$3 or quer\$4 or retriev\$6) same multimedia and concept!	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 16:11
S5	0	(getnext or "get-next" or getnextmatch) and (assignnext or "assignt-next" or assignnextmatch) and (shifttnext or "shift-next" or shiftnextmatch) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 17:59
S6	0	(getnext or "get-next" or getnextmatch) and (assignnext or "assignt-next" or assignnextmatch) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 16:15
S7	0	(getnext or "get-next" or getnextmatch) and (shifttnext or "shift-next" or shiftnextmatch) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 16:38
S8	0	(shifttnext or "shift-next" or shiftnextmatch) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 16:16
S9	0	(assignnext or "assignt-next" or assignnextmatch) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 18:26
S10	19	(getnext or "get-next" or getnextmatch) and (assignnext or "assignt-next" or assignnextmatch or "assign()") and (shifttnext or "shift-next" or shiftnextmatch or "shift()") and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 16:39

S11	2	(function same (getnext or "get-next" or getnextmatch)) and (function same (assignnext or "assignt-next" or assignnextmatch or "assign()")) and (function same (shifttnext or "shift-next" or shiftnextmatch or "shift()")) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 11:47
S12	185	(getnext or "get-next" or getnextmatch) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 16:28
S13	0	(function\$ same algorithm and @ad<"20010809") and (getnext or "get-next" or getnextmatch) and (shifttnext or "shift-next" or shiftnextmatch)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 16:39
S14	0	(function\$ same algorithm and @ad<"20010809") and (shifttnext or "shift-next" or shiftnextmatch)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 16:39
S15	0	(function\$ same algorithm and @ad<"20010809") and (assignnext or "assignt-next" or assignnextmatch)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 16:40
S16	241	(function\$ same algorithm and @ad<"20010809") and (assignnext or "assignt-next" or assignnextmatch or (function adj1 next))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 16:40
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S18	0	("get function") and ("assign function") and ("shift function") and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 18:01
S19	0	("shiftt function") and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 18:01
S20	1	("get function") and @ad<"20010809" and (("assign function") and @ad<"20010809")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 18:01

S21	0	(function same (getnext or "get-next" or getnextmatch)) and (function same (assignnext or "assignt-next" or assignnnextmatch)) and (function same (shifttnext or "shift-next" or shiftnextmatch)) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 20:26
S22	0	(function same (getnext or "get-next" or getnextmatch)) and (function same (assignnext or "assignt-next" or assignnnextmatch)) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 18:03
S23	25	(function\$ same algorithm and @ad<"20010809") and (getnext or "get-next" or getnextmatch)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 18:07
S24	0	((assignnext or "assignt-next" or assignnnextmatch or assign!) adj2 function\$1 and @ad<"20010809") and ((getnext or "get-next" or getnextmatch) and @ad<"20010809")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 19:17
S25	0	medianet and concept! and multimedia and (("content-based" or "content based") adj2 retriev\$4) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 19:20
S26	45	concept! and multimedia and (("content-based" or "content based") adj2 retriev\$4) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 19:22
S27	30	(concept! and multimedia and (("content-based" or "content based") adj2 retriev\$4) and @ad<"20010809") and librar\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 19:22
S28	0	(procedure same (getnext or "get-next" or getnextmatch)) and (procedure same (assignnext or "assignt-next" or assignnnextmatch)) and (function same (shifttnext or "shift-next" or shiftnextmatch)) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 20:27
S29	0	(procedure same (getnext or "get-next" or getnextmatch)) and (procedure same (assignnext or "assignt-next" or assignnnextmatch)) and (procedure same (shifttnext or "shift-next" or shiftnextmatch)) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 20:28

S30	0	(procedure same (getnext or "get-next" or getnextmatch)) and (procedure same (assignnext or "assign-next" or assignnextmatch)) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 20:27
S31	0	(procedure same (getnext or "get-next" or getnextmatch)) and (procedure same (shifttnext or "shift-next" or shiftnextmatch)) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 20:29
S32	16	(procedure same (getnext or "get-next" or getnextmatch)) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/10 20:28
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S34	92	Concept! and ("image library" or "image libraries") and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/11 09:49
S35	16	Concept! same ("image library" or "image libraries") and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/11 09:52
S36	10	(Concept! same ("image library" or "image libraries") and @ad<"20010809") and quer\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2003/12/11 09:53
S37	39	(Concept! and ("image library" or "image libraries") and @ad<"20010809") and quer\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 12:28
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S39	2	"20030041047"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/01 15:20
S40	2	"20030041047" and concept	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/01 15:20
S41	1	("20030041047" and concept) and "low-level" and "high-level"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/01 15:21

S42	69	Concept! same (search\$3 or quer\$4 or retriev\$6) same multimedia and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/01 15:57
S43	3	(Concept! same (search\$3 or quer\$4 or retriev\$6) same multimedia and @ad<"20010809") and ("low level" or low near level or "low-level") and ('high level" or high near level or "high-level")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/01 15:58
S44	26	(Concept! same (search\$3 or quer\$4 or retriev\$6) same multimedia and @ad<"20010809") and ("low level" or low near level or "low-level" or "high level" or high near level or "high-level")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/01 15:35
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S46	12	(Concept\$1 same (search\$3 or quer\$4 or retriev\$6) same multimedia and @ad<"20010809") and ("low level" or low near level or "low-level") and ("high level" or high near level or "high-level")	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/01 16:05
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S49	12	((Concept\$1 same (search\$3 or quer\$4 or retriev\$6) same multimedia and @ad<"20010809") and ("low level" or low near level or "low-level") and ("high level" or high near level or "high-level")) and concept\$1 and (quer\$3 or search\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 12:25

S50	9	((Concept\$1 same (search\$3 or quer\$4 or retriev\$6) same multimedia and @ad<"20010809") and ("low level" or low near level or "low-level") and ("high level" or high near level or "high-level")) and concept\$1 and (quer\$3 or search\$3)) and (concept\$1 same stor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 12:26
S51	103	(Concept\$1 same stor\$3 same ("image library" or "image libraries" or librar\$3) and @ad<"20010809") and quer\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 12:32
S52	0	(Concept\$1 same stor\$3 same ("image library" or "image libraries") and @ad<"20010809") and quer\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 12:30
S53	0	(Concept\$1 same stor\$3 same ("image library" or "image libraries" or "library module") and @ad<"20010809") and quer\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 12:30
S54	0	(Concept\$1 same stor\$3 same ("image library" or "image libraries" or (librar\$3 near module)) and @ad<"20010809") and quer\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 12:31
S55	0	(Concept\$1 same stor\$3 same ("image library" or "image libraries" or librar\$3) and concept\$1 and cataloger\$1 and @ad<"20010809") and quer\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 12:34
S56	3	((Concept\$1 same stor\$3 same ("image library" or "image libraries" or librar\$3) and concept\$1 and catalog\$3 and @ad<"20010809") and quer\$3) and interpreter\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 12:35
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S59	3	(Concept\$1 same stor\$3 same ("image library" or "image libraries" or librар\$3) and concept\$1 and catalog\$3 and @ad<"20010809") and quer\$3 and (interpreter\$1 or translator\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/02 12:53
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S61	943	(function same (assignnext or "assign-next" or assignnextmatch or "assign()")) and (function same (shifttnext or "shift-next" or shiftnextmatch or "shift()")) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 11:59
S62	12	Concept! near2 (search\$3 or quer\$4 or retriev\$6) same multimedia	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 11:58
S63	0	((function same (assignnext or "assign-next" or assignnextmatch or "assign()")) and (function same (shifttnext or "shift-next" or shiftnextmatch or "shift()")) and @ad<"20010809") and (Concept! near2 (search\$3 or quer\$4 or retriev\$6) same multimedia)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 11:58
S64	147	(function same (assignnext or "assign-next" or assignnextmatch or "assign()")) same (function same (shifttnext or "shift-next" or shiftnextmatch or "shift()")) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 12:22
S65	0	(function same ("assignnext" or "assign-next" or "assignnextmatch")) and (function same ("shifttnext" or "shift-next" or "shiftnextmatch")) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 12:21
S66	147	(function same (assignnext or "assign-next" or assignnextmatch or assign "()") same (function same (shifttnext or "shift-next" or shiftnextmatch or shift "()")) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 12:23

S67	147	(function same (assignnext or "assign-next" or assignnextmatch or assign"()") same (function same (shiftnext or "shift-next" or shiftnextmatch or shift"()")) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 12:26
S68	43	algorithm\$1 and (function same (assignnext or "assign-next" or assignnextmatch or assign"()") same (function same (shiftnext or "shift-next" or shiftnextmatch or shift"()")) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 12:32
S69	337	algorithm\$1 and (assignnext or "assign-next" or assignnextmatch or assign"()") same (shiftnext or "shift-next" or shiftnextmatch or shift"()") and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 13:32
S70	0	algorithm\$1 and (assignnext or "assign-next" or assignnextmatch) same (shiftnext or "shift-next" or shiftnextmatch) and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 12:58
S71	0	(algorithm\$1 or function\$1 or procedure\$1) and (assignnext or "assign-next" or assignnextmatch or "assign next") same (shiftnext or "shift-next" or shiftnextmatch or "shift next") and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 12:59
S72	3	(algorithm\$1 or function\$1 or procedure\$1) and (assignnext or "assign-next" or assignnextmatch or "assign next") and (shiftnext or "shift-next" or shiftnextmatch or "shift next") and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 12:59
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S75	3	"assign next" and "shift next" and @ad<"20010809"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/06/03 13:42

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- 1 Video and multimedia digital libraries: A multilingual, multimodal digital video library system

Michael R. Lyu, Edward Yau, Sam Sze

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**Full text available:  pdf(440.24 KB) Additional Information: full citation, abstract, references, citations, index terms

This paper presents the iVIEW system, a multi-lingual, multi-modal digital video content management system for intelligent searching and access of English and Chinese video contents. iVIEW allows full content indexing, searching and retrieval of multi-lingual text, audio and video material. It consists image processing techniques for scenes and scene changes analyses, speech processing techniques for audio signal transcriptions, and multi-lingual natural language processing techniques for word r ...

Keywords: applications, browser on mobile devices, middleware and browser interactions, multi-modal interactions, multimedia management and support

- 2 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2Full text available:  pdf(316.85 KB) Additional Information: full citation, abstract, references, citations, index terms

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

- 3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 **Strategic directions in electronic commerce and digital libraries: towards a digital agora** 

Nabil Adam, Yelena Yesha

December 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 4

Full text available:  pdf(244.34 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 **Digital libraries for spatial data: The ADEPT digital library architecture** 

Greg Janée, James Frew

July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(263.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Alexandria Digital Earth ProtoType (ADEPT) architecture is a framework for building distributed digital libraries of georeferenced information. An ADEPT system comprises one or more autonomous libraries, each of which provides a uniform interface to one or more collections, each of which manages metadata for one or more items. The primary standard on which the architecture is based is the ADEPT bucket framework, which defines uniform client-level metadata query services that are compatible w ...

Keywords: bucket framework, collection discovery, distribution, interoperability, metadata

6 **PERSIVAL: a system for personalized search and summarization over multimedia healthcare information** 

Kathleen R. McKeown, Shih-Fu Chang, James Cimino, Steven Feiner, Carol Friedman, Luis Gravano, Vasileios Hatzivassiloglou, Steven Johnson, Desmond A. Jordan, Judith L. Klavans, André Kushniruk, Vimla Patel, Simone Teufel

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(369.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In healthcare settings, patients need access to online information that can help them understand their medical situation. Physicians need information that is clinically relevant to an individual patient. In this paper, we present our progress on developing a system, PERSIVAL, that is designed to provide personalized access to a distributed patient care digital library. Using the secure, online patient records at New York Presbyterian Hospital as a user model, PERSIVAL's components tailor s ...

Keywords: medical digital library, multimedia, natural language, personalization, query interface, search, summarization

7 **Computing curricula 2001** 

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: [pdf\(613.63 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
[html\(2.78 KB\)](#)

8 Patron-augmented digital libraries



Dion Goh, John Leggett

June 2000 **Proceedings of the fifth ACM conference on Digital libraries**

Full text available: [pdf\(598.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital library research is mostly focused on the generation of large collections of multimedia resources and state-of-the-art tools for their indexing and retrieval. However, digital libraries should provide more than advanced collection maintenance and retrieval services since the ultimate goal of any (academic) library is to serve the scholarly needs of its users. This paper begins by presenting a case for digital scholarship in which patrons perform all scholarly work electronically. A ...

Keywords: digital scholarship, patron-augmented digital libraries, publishing, user interfaces

9 Session 11: multimedia analysis and retrieval: VQ-index: an index structure for similarity searching in multimedia databases



Ertan Tuncel, Hakan Ferhatosmanoglu, Kenneth Rose

December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: [pdf\(525.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In this paper, we introduce a novel indexing technique based on efficient compression of the feature space for approximate similarity searching in large multimedia databases. Its main novelty is that state-of-the-art tools from the discipline of data compression are adopted to optimize the complexity-performance tradeoff in large data sets. The design procedure optimizes the query access time by jointly accounting for both database distribution and query statistics. We achieve efficient compress ...

Keywords: approximate similarity searching, clustering, indexing, retrieved information reduction, retrieved set reduction, vector quantization

10 Multimedia Processing: Supporting audiovisual query using dynamic programming



Milind R. Naphade, Roy Wang, Thomas S. Huang

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

Full text available: [pdf\(2.79 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A necessary capability for content-based retrieval is to support the paradigm of query by example. Most systems for video retrieval support queries using image sequences only. We present an algorithm for matching multimodal (audio-visual) patterns for the purpose of content-based video retrieval. The novel ability of our approach to use the information content in multiple media coupled with a strong emphasis on temporal similarity differentiates it from the state-of-the-art in content-based retr ...

Keywords: dynamic programming, nonlinear warping, relevance feedback, video retrieval

11 A visual approach to multimedia querying and presentation



Isabel F. Cruz, Wendy T. Lucas

November 1997 **Proceedings of the fifth ACM international conference on Multimedia**

Full text available:  pdf(1.54 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



12 A multi-paradigm querying approach for a generic multimedia database management system

Ji-Rong Wen, Qing Li, Wei-Ying Ma, Hong-Jiang Zhang

March 2003 **ACM SIGMOD Record**, Volume 32 Issue 1

Full text available:  pdf(524.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

To truly meet the requirements of multimedia database (MMDB) management, an integrated framework for modeling, managing and retrieving various kinds of media data in a uniform way is necessary. MediaLand is an experimental MMDB platform being developed at *Microsoft Research Asia* for users with different levels of experiences and expertise to manage and search multimedia repositories easily, efficiently, and cooperatively. Key features of MediaLand include a uniform data model for describi ...

Keywords: media independence, multi-paradigm querying, multimedia database management, uniform data modeling



13 Designing and accessing scientific digital libraries: On querying geospatial and georeferenced metadata resources in G-portal

Zehua Liu, Ee-Peng Lim, Wee-Keong Ng, Dion H. Goh

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(92.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

G-Portal is a web portal system providing a range of digital library services to access geospatial and georeferenced resources on the Web. Among them are the storage and query subsystems that provide a central repository of metadata resources organized under different projects. In GPortal, all metadata resources are represented in XML (Extensible Markup Language) and they are compliant to some resource schemas defined by their creators. The resource schemas are extended versions of a basic resou ...



14 Foundations of multimedia database systems

Sherry Marcus, V. S. Subrahmanian

May 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 3

Full text available:  pdf(4.11 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Though numerous multimedia systems exist in the commercial market today, relatively little work has been done on developing the mathematical foundation of multimedia technology. We attempt to take some initial steps towards the development of a theoretical basis for a multimedia information system. To do so, we develop the notion of a structured multimedia database system. We begin by defining a mathematical model of a media-instance. A media-instance may be thought of as "glue" ...

Keywords: data structures, multimedia databases, query languages, query processing



15 A user-centered interface for querying distributed multimedia databases

Isabel F. Cruz, Kimberly M. James

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2

Additional Information:

Full text available:  pdf(536.21 KB)

[full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Facilitating information retrieval in the vastly growing realm of digital media has become increasingly difficult. DelaunayMM seeks to assist all users in finding relevant information through an interactive interface that supports pre- and post-query refinement, and a customizable multimedia information display. This project leverages the strengths of visual query languages with a resourceful framework to provide users with a single intuitive interface. The interface an ...

Keywords: customizable user interfaces, distributed database access, multimedia querying

16 Scalable integrated region-based image retrieval using IRM and statistical clustering 

James Z. Wang, Yanping Du

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Full text available:  pdf(1.73 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Statistical clustering is critical in designing scalable image retrieval systems. In this paper, we present a scalable algorithm for indexing and retrieving images based on region segmentation. The method uses statistical clustering on region features and IRM (Integrated Region Matching), a measure developed to evaluate overall similarity between images that incorporates properties of all the regions in the images by a region-matching scheme. Compared with retrieval based on individual ...

Keywords: clustering, content-based image retrieval, integrated region matching, segmentaton, wavelets

17 Posters: A wireless handheld multi-modal digital video library client system 

Michael R. Lyu, Jerome Yen, Edward Yau, Sam Sze

November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**

Full text available:  pdf(814.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We developed technologies for transmitting video contents over wireless platforms, and encapsulated these video delivery and presentation technologies into a client system for accessing a multi-modal digital video library. The mobile access system, *iVIEW client*, provides a user interface that meets the challenge of rich multi-modal information presentation on wireless hand-held devices. An XML schema is employed to organize the multi-modal metadata for better data interoperability. Furthe ...

Keywords: XML, browser and interface on mobile devices, mobile applications, multi-modal content retrieval, multimedia information retrieval, multimedia management and support

18 A search engine for 3D models 

Thomas Funkhouser, Patrick Min, Michael Kazhdan, Joyce Chen, Alex Halderman, David Dobkin, David Jacobs

January 2003 **ACM Transactions on Graphics (TOG)**, Volume 22 Issue 1

Full text available:  pdf(7.91 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As the number of 3D models available on the Web grows, there is an increasing need for a search engine to help people find them. Unfortunately, traditional text-based search techniques are not always effective for 3D data. In this article, we investigate new shape-

based search methods. The key challenges are to develop query methods simple enough for novice users and matching algorithms robust enough to work for arbitrary polygonal models. We present a Web-based search engine system that support ...

Keywords: Search engine, shape matching, shape representation, shape retrieval

19 Tools and approaches for developing data-intensive Web applications: a survey

Piero Fraternali

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Full text available:  [pdf\(524.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The exponential growth and capillary diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characterizing ...

Keywords: HTML, Intranet, WWW, application, development

20 A model of multimedia information retrieval

Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia

September 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 5

Full text available:  [pdf\(5.69 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A prominent feature of this research trend is its simultaneous but independent materialization within several fields of computer science. The resulting richness of paradigms, methods and systems may, on the long run, result in a fragmentation of efforts and slow down progress. The primary goal of this study is to promote an integration of methods and techniques for MIR by contributing a conceptual model ...

Keywords: Description logics, fuzzy logics, multimedia information retrieval

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